

Machine Learning Certification Training

Lesson 0: Course Introduction



Course Objectives

By the end of this course, you will be able to:

- Programmatically download and analyze data
- Learn data visualization
- Master the art of data analysis by using Ipython notebooks
- Gain insight into the role of a machine learning engineer
- Explain machine learning
- Work with industry-based data
- Learn the tools and techniques for predictive modeling
- Discuss machine learning algorithms and their implementation
- Validate machine learning algorithms
- Demonstrate time series and its related concepts



Course Outline



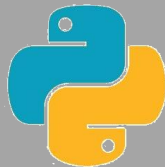
Prerequisites

Prior knowledge of the following domains and technology is helpful:

Linear Algebra

$$[A][x] = [b]$$

Statistics



Python

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Skills Covered

1. Numerical Analysis
2. Machine Learning Algorithms
3. Text Analysis
4. Data Visualization Techniques
5. Data Wrangling
6. Scalable Machine Learning Models

Project Highlights



Arrive at an income qualification model for Inter-American Development Bank with respect to some of the world's poorest families



Develop auto-access models for amazon's employee access challenge



Design algorithm for Uber that will tell the fare to be charged on the passenger of taxi



Tackle the curse of dimensionality and reduce the time that cars spend on the test bench of Mercedes Benz



Thank You